

# CO<sub>2</sub> Feeder Specification

A CO<sub>2</sub> feed system shall be furnished. The unit shall be capable of feeding CO<sub>2</sub> directly into the body of water. The unit shall be available in 4-30 and 20-200 SCFH feed proportions. The CO<sub>2</sub> feed system shall be a self-contained unit with injection point provided. The CO<sub>2</sub> feed system shall be a CO<sub>2</sub> feeder by AquatiControl Technology, Sheridan, Colorado.

Requests for application type and/or substitutions for make and model will have to be submitted to the specifying agent no less than 14 calendar days prior to bid date. Requests for application type must include all specified features; complete documentation relating to all the specified features; and engineering drawings, installation, operation, and maintenance manuals. Failure to provide these or any other information necessary to confirm that all specified features are provided will be cause for rejection of substitution request.

## **FEEDER**

### *Housing and Mounting*

The feeder shall be a thermally formed ABS housing. The housing and connections shall be designed to eliminate any possibility of water build up and/or damage to the internal components of the feeder. The housing shall be mounted using the two mounting holes located on the tab on top of the housing. For user ease, the feeder should be mounted so the flow indicator is near eye level with solid mounting. The feeder shall be factory wired and tested for functionality.

### *Valve*

The valve shall be a brass or polycarbonate body solenoid valve rated at 120 VAC. The valve shall be a normally closed valve rated to at least 150PSI closing power. It shall utilize a DIN connection on the valve for easy service and troubleshooting. The overlay shall consist of polycarbonate overlay with colored labeling.

### *Indicators*

The flow indicator on the CO<sub>2</sub> feeder shall be easily adjustable and should indicate the amount of CO<sub>2</sub> being fed at any given time.

### *Output*

The feeder shall provide a 3/8" OD poly tube fitting for CO<sub>2</sub> dispensing.

### *Inputs*

The feeder shall provide a 3/8" OD poly tube fitting for CO<sub>2</sub> input.

***Power***

The feeder shall be provided with a six foot three wire power cord, 18 AWG; the feeder operates on 120 VAC, 60 Hz. Watertight strain reliefs are provided for all cordage.

***Ambient Conditions***

The CO<sub>2</sub> feeder shall work in ambient conditions of 0 to 60°C. The open housing shall insure the feeder without possibility of water damage.

***Warranty***

Warranty shall be one year on parts and labor.